

Agricultural Waste Management

Van Buren County, Iowa

Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Application of sewage sludge		Disposal of wastewater by irrigation	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
13B: Olmitz-----	35	Not limited		Not limited		Somewhat limited Too steep for surface application	0.08
Vesser-----	33	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone Too steep for surface application	1.00 0.08
Zook-----	32	Very limited Restricted permeability Depth to saturated zone Leaching limitation	1.00 1.00 0.50	Very limited Restricted permeability Depth to saturated zone	1.00 1.00	Very limited Restricted permeability Depth to saturated zone	1.00 1.00
23C2: Arispe-----	95	Very limited Restricted permeability Depth to saturated zone	1.00 0.43	Very limited Restricted permeability Depth to saturated zone	1.00 0.43	Very limited Restricted permeability Too steep for surface application Depth to saturated zone Too steep for sprinkler application	1.00 0.91 0.43 0.02
51: Vesser-----	100	Very limited Depth to saturated zone Flooding	1.00 0.60	Very limited Flooding Depth to saturated zone	1.00 1.00	Very limited Depth to saturated zone Flooding	1.00 0.60
51+: Vesser-----	100	Very limited Depth to saturated zone Flooding	1.00 0.60	Very limited Flooding Depth to saturated zone	1.00 1.00	Very limited Depth to saturated zone Flooding	1.00 0.60

FIELD OFFICE TECHNICAL GUIDE Sec. II
WASTE DISPOSAL INTERPRETATIONS

Agricultural Waste Management

Van Buren County, Iowa

Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Application of sewage sludge		Disposal of wastewater by irrigation	
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51B: Vesser-----	100	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone Too steep for surface application	1.00 0.08
54: Zook-----	100	Very limited Restricted permeability Depth to saturated zone Flooding Leaching limitation	1.00 1.00 0.60 0.50	Very limited Flooding Restricted permeability Depth to saturated zone	1.00 1.00 1.00	Very limited Restricted permeability Depth to saturated zone Flooding	1.00 1.00 0.60
58D: Douds-----	100	Somewhat limited Slope Too acid	0.63 0.02	Somewhat limited Slope Too acid	0.63 0.07	Very limited Too steep for surface application Too steep for sprinkler application Too acid	1.00 0.77 0.07
58D2: Douds-----	100	Somewhat limited Slope Too acid	0.63 0.02	Somewhat limited Slope Too acid	0.63 0.07	Very limited Too steep for surface application Too steep for sprinkler application Too acid	1.00 0.77 0.07
58E2: Douds-----	100	Very limited Slope Too acid	1.00 0.02	Very limited Slope Too acid	1.00 0.07	Very limited Too steep for surface application Too steep for sprinkler application	1.00 1.00

FIELD OFFICE TECHNICAL GUIDE Sec. II
WASTE DISPOSAL INTERPRETATIONS

Agricultural Waste Management

Van Buren County, Iowa

Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Application of sewage sludge		Disposal of wastewater by irrigation	
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58F2: Douds-----	100			Low adsorption	0.01	Too acid	0.07
		Very limited Slope	1.00	Very limited Slope	1.00	Very limited Too steep for surface application	1.00
		Too acid	0.02	Too acid	0.07	Too steep for sprinkler application	1.00
				Low adsorption	0.01	Too acid	0.07
58G: Douds-----	100	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Too steep for surface application	1.00
		Too acid	0.02	Too acid	0.07	Too steep for sprinkler application	1.00
						Too acid	0.07
65D: Lindley-----	90	Somewhat limited Slope	0.63	Somewhat limited Slope	0.63	Very limited Too steep for surface application	1.00
		Restricted permeability	0.30	Too acid	0.31	Too steep for sprinkler application	0.77
		Too acid	0.08	Restricted permeability	0.22	Too acid	0.31
						Restricted permeability	0.22
65D2: Lindley-----	90	Somewhat limited Slope	0.63	Somewhat limited Slope	0.63	Very limited Too steep for surface application	1.00
		Restricted permeability	0.30	Too acid	0.31	Too steep for sprinkler application	0.77
		Too acid	0.08	Restricted permeability	0.22	Too acid	0.31
						Restricted permeability	0.22

FIELD OFFICE TECHNICAL GUIDE Sec. II
WASTE DISPOSAL INTERPRETATIONS

Agricultural Waste Management

Van Buren County, Iowa

Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Application of sewage sludge		Disposal of wastewater by irrigation	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
65E: Lindley-----	95	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Too steep for surface application	1.00
		Restricted permeability	0.30	Too acid	0.31	Too steep for sprinkler application	1.00
		Too acid	0.08	Restricted permeability	0.22	Too acid	0.31
						Restricted permeability	0.22
65E2: Lindley-----	95	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Too steep for surface application	1.00
		Restricted permeability	0.30	Too acid	0.31	Too steep for sprinkler application	1.00
		Too acid	0.08	Restricted permeability	0.22	Too acid	0.31
						Restricted permeability	0.22
65F2: Lindley-----	95	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Too steep for surface application	1.00
		Restricted permeability	0.30	Too acid	0.31	Too steep for sprinkler application	1.00
		Too acid	0.08	Restricted permeability	0.22	Too acid	0.31
						Restricted permeability	0.22
65G: Lindley-----	95	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Too steep for surface application	1.00
		Restricted permeability	0.30	Too acid	0.31	Too steep for sprinkler application	1.00

FIELD OFFICE TECHNICAL GUIDE Sec. II
WASTE DISPOSAL INTERPRETATIONS

Agricultural Waste Management

Van Buren County, Iowa

Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Application of sewage sludge		Disposal of wastewater by irrigation	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
80B: Clinton-----	95	Too acid	0.08	Restricted permeability	0.22	Too acid	0.31
						Restricted permeability	0.22
		Somewhat limited		Somewhat limited		Somewhat limited	
		Restricted permeability	0.30	Restricted permeability	0.22	Restricted permeability	0.22
		Too acid	0.02	Too acid	0.07	Too steep for surface application	0.08
80C: Clinton-----	90					Too acid	0.07
		Somewhat limited		Somewhat limited		Somewhat limited	
		Restricted permeability	0.30	Restricted permeability	0.22	Too steep for surface application	0.91
		Too acid	0.02	Too acid	0.07	Restricted permeability	0.22
						Too acid	0.07
80C2: Clinton-----	90					Too steep for sprinkler application	0.02
		Somewhat limited		Somewhat limited		Somewhat limited	
		Restricted permeability	0.30	Restricted permeability	0.22	Too steep for surface application	0.91
		Too acid	0.02	Too acid	0.07	Restricted permeability	0.22
						Too acid	0.07
80D: Clinton-----	90					Too steep for sprinkler application	0.02
		Somewhat limited		Somewhat limited		Very limited	
		Slope	0.63	Slope	0.63	Too steep for surface application	1.00
		Restricted permeability	0.30	Restricted permeability	0.22	Too steep for sprinkler application	0.77
		Too acid	0.02	Too acid	0.07	Restricted permeability	0.22

Agricultural Waste Management

Van Buren County, Iowa

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
80D2: Clinton-----	90					Too acid	0.07
		Somewhat limited Slope	0.63	Somewhat limited Slope	0.63	Very limited Too steep for surface application	1.00
		Restricted permeability	0.30	Restricted permeability	0.22	Too steep for sprinkler application	0.77
		Too acid	0.02	Too acid	0.07	Restricted permeability Too acid	0.22 0.07
130: Belinda-----	100	Very limited		Very limited		Very limited	
		Restricted permeability	1.00	Restricted permeability	1.00	Restricted permeability	1.00
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Runoff limitation	0.40				
131B: Pershing-----	90	Very limited		Very limited		Very limited	
		Restricted permeability	1.00	Restricted permeability	1.00	Restricted permeability	1.00
		Depth to saturated zone	0.43	Depth to saturated zone	0.43	Depth to saturated zone	0.43
		Too acid	0.08	Too acid	0.31	Too acid Too steep for surface application	0.31 0.08
131B2: Pershing-----	90	Very limited		Very limited		Very limited	
		Restricted permeability	1.00	Restricted permeability	1.00	Restricted permeability	1.00
		Depth to saturated zone	0.43	Depth to saturated zone	0.43	Depth to saturated zone	0.43
		Too acid	0.08	Too acid	0.31	Too acid Too steep for surface application	0.31 0.08
131C: Pershing-----	90	Very limited		Very limited		Very limited	
		Restricted permeability	1.00	Restricted permeability	1.00	Restricted permeability	1.00

FIELD OFFICE TECHNICAL GUIDE Sec. II
WASTE DISPOSAL INTERPRETATIONS

Agricultural Waste Management

(The information in this table indicates the dominant soil condition but does not eliminate the need for onsite investigation. The numbers in the value columns range from 0.01 to 1.00. The larger the value, the greater the limitation. See text for further explanation of ratings in this table.)

Van Buren County, Iowa

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
131C2: Pershing-----	90	Depth to saturated zone	0.43	Depth to saturated zone	0.43	Too steep for surface application	0.91
		Too acid	0.08	Too acid	0.31	Depth to saturated zone	0.43
						Too acid	0.31
						Too steep for sprinkler application	0.02
		Very limited		Very limited		Very limited	
		Restricted permeability	1.00	Restricted permeability	1.00	Restricted permeability	1.00
		Depth to saturated zone	0.43	Depth to saturated zone	0.43	Too steep for surface application	0.91
		Too acid	0.08	Too acid	0.31	Depth to saturated zone	0.43
						Too acid	0.31
						Too steep for sprinkler application	0.02
132B: Weller-----	100	Very limited		Very limited		Very limited	
		Restricted permeability	1.00	Restricted permeability	1.00	Restricted permeability	1.00
		Depth to saturated zone	0.43	Depth to saturated zone	0.43	Depth to saturated zone	0.43
		Too acid	0.08	Too acid	0.31	Too acid	0.31
						Too steep for surface application	0.08
132C: Weller-----	90	Very limited		Very limited		Very limited	
		Restricted permeability	1.00	Restricted permeability	1.00	Restricted permeability	1.00
		Depth to saturated zone	0.43	Depth to saturated zone	0.43	Too steep for surface application	0.91
		Too acid	0.08	Too acid	0.31	Depth to saturated zone	0.43
						Too acid	0.31

FIELD OFFICE TECHNICAL GUIDE Sec. II
WASTE DISPOSAL INTERPRETATIONS

Agricultural Waste Management

Van Buren County, Iowa

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
132C2: Weller-----	90					Too steep for sprinkler application	0.02
		Very limited		Very limited		Very limited	
		Restricted	1.00	Restricted	1.00	Restricted	1.00
		permeability		permeability		permeability	
		Depth to	0.43	Depth to	0.43	Too steep for	0.91
139: Perks-----	95	saturated zone		saturated zone		surface application	
		Too acid	0.08	Too acid	0.31	Depth to	0.43
						saturated zone	
						Too acid	0.31
						Too steep for	0.02
139B: Perks-----	100					sprinkler application	
		Very limited		Very limited		Very limited	
		Droughty	1.00	Flooding	1.00	Droughty	1.00
		Filtering	1.00	Droughty	1.00	Filtering	1.00
		capacity				capacity	
172: Wabash-----	95	Flooding	0.60	Filtering	1.00	Flooding	0.60
		Leaching	0.45	capacity			
		limitation					
		Very limited		Very limited		Very limited	
		Droughty	1.00	Droughty	1.00	Droughty	1.00
		Filtering	1.00	Filtering	1.00	Filtering	1.00
		capacity		capacity		capacity	
		Leaching	0.45			Too steep for	0.08
		limitation				surface application	
		Very limited		Very limited		Very limited	
		Restricted	1.00	Restricted	1.00	Restricted	1.00
		permeability		permeability		permeability	
		Depth to	1.00	Depth to	1.00	Depth to	1.00
		saturated zone		saturated zone		saturated zone	
		Flooding	0.60	Flooding	1.00	Flooding	0.60
		Runoff limitation	0.40	Too acid	0.07	Too acid	0.07
		Too acid	0.02				

Agricultural Waste Management

Van Buren County, Iowa

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
173: Hoopeston-----	100	Very limited Filtering capacity Depth to saturated zone Too acid	1.00 1.00 0.11	Very limited Filtering capacity Depth to saturated zone Too acid	1.00 1.00 0.42	Very limited Filtering capacity Depth to saturated zone Too acid	1.00 1.00 0.42
179D2: Gara-----	90	Somewhat limited Slope Restricted permeability	0.63 0.30	Somewhat limited Slope Restricted permeability	0.63 0.22	Very limited Too steep for surface application Too steep for sprinkler application Restricted permeability	1.00 0.77 0.22
179E2: Gara-----	95	Very limited Slope Restricted permeability	1.00 0.30	Very limited Slope Restricted permeability	1.00 0.22	Very limited Too steep for surface application Too steep for sprinkler application Restricted permeability	1.00 1.00 0.22
197: Reedscreek-----	100	Somewhat limited Flooding	0.60	Very limited Flooding	1.00	Somewhat limited Flooding	0.60
208: Klum-----	95	Somewhat limited Flooding	0.60	Very limited Flooding	1.00	Somewhat limited Flooding	0.60
211: Edina-----	90	Very limited Restricted permeability Depth to saturated zone Runoff limitation Too acid	1.00 0.86 0.40 0.02	Very limited Restricted permeability Depth to saturated zone Too acid	1.00 0.86 0.07	Very limited Restricted permeability Depth to saturated zone Too acid	1.00 0.86 0.07

Agricultural Waste Management

Van Buren County, Iowa

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
220: Nodaway-----	90	Somewhat limited Flooding	0.60	Very limited Flooding	1.00	Somewhat limited Flooding	0.60
222C2: Clarinda-----	100	Very limited Restricted permeability Depth to saturated zone Runoff limitation	1.00 1.00 0.40	Very limited Restricted permeability Depth to saturated zone Too acid	1.00 1.00 0.07	Very limited Restricted permeability Depth to saturated zone Too steep for surface application Too acid Too steep for sprinkler application	1.00 1.00 0.91 0.07 0.02
223C2: Rinda-----	100	Very limited Restricted permeability Depth to saturated zone Runoff limitation	1.00 1.00 0.40	Very limited Restricted permeability Depth to saturated zone	1.00 1.00	Very limited Restricted permeability Depth to saturated zone Too steep for surface application Too steep for sprinkler application	1.00 1.00 0.91 0.02
231: Edina-----	90	Very limited Restricted permeability Runoff limitation Depth to saturated zone Too acid	1.00 0.40 0.09 0.02	Very limited Restricted permeability Depth to saturated zone Too acid	1.00 0.09 0.07	Very limited Restricted permeability Depth to saturated zone Too acid	1.00 0.09 0.07
260: Beckwith-----	100	Very limited Restricted permeability Depth to saturated zone Runoff limitation	1.00 1.00 0.40	Very limited Restricted permeability Depth to saturated zone Too acid	1.00 1.00 0.31	Very limited Restricted permeability Depth to saturated zone Too acid	1.00 1.00 0.31

Agricultural Waste Management

Van Buren County, Iowa

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
261: Appanoose-----	100	Too acid	0.08				
		Very limited		Very limited		Very limited	
		Restricted	1.00	Restricted	1.00	Restricted	1.00
		permeability		permeability		permeability	
		Depth to	1.00	Depth to	1.00	Depth to	1.00
263: Okaw-----	100	saturated zone		saturated zone		saturated zone	
		Runoff limitation	0.40	Too acid	0.31	Too acid	0.31
		Too acid	0.08				
		Very limited		Very limited		Very limited	
		Restricted	1.00	Restricted	1.00	Restricted	1.00
273B: Olmitz-----	100	permeability		permeability		permeability	
		Depth to	1.00	Depth to	1.00	Depth to	1.00
		saturated zone		saturated zone		saturated zone	
		Runoff limitation	0.40	Too acid	0.31	Too acid	0.31
		Too acid	0.08				
273C: Olmitz-----	100	Not limited		Not limited		Somewhat limited	
						Too steep for	0.08
						surface	
						application	
312B: Seymour-----	100	Not limited		Not limited		Somewhat limited	
						Too steep for	0.91
						surface	
						application	
						Too steep for	0.02
312B2: Seymour-----	100	sprinkler				application	
		application					
		Very limited		Very limited		Very limited	
		Restricted	1.00	Restricted	1.00	Restricted	1.00
		permeability		permeability		permeability	
312B2: Seymour-----	100	Depth to	0.43	Depth to	0.43	Depth to	0.43
		saturated zone		saturated zone		saturated zone	
						Too steep for	0.08
						surface	
						application	
312B2: Seymour-----	100	Very limited		Very limited		Very limited	

FIELD OFFICE TECHNICAL GUIDE Sec. II
WASTE DISPOSAL INTERPRETATIONS

Agricultural Waste Management

Van Buren County, Iowa

Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Application of sewage sludge		Disposal of wastewater by irrigation	
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313D2: Gosport-----	95	Restricted permeability	1.00	Restricted permeability	1.00	Restricted permeability	1.00
		Depth to saturated zone	0.43	Depth to saturated zone	0.43	Depth to saturated zone	0.43
						Too steep for surface application	0.08
		Very limited		Very limited		Very limited	
		Restricted permeability	1.00	Restricted permeability	1.00	Restricted permeability	1.00
		Droughty	0.91	Droughty	0.91	Too steep for surface application	1.00
		Slope	0.63	Slope	0.63	Droughty	0.91
		Depth to bedrock	0.46	Depth to bedrock	0.46	Too steep for sprinkler application	0.77
313E2: Gosport-----	95	Too acid	0.02	Too acid	0.07	Depth to bedrock	0.46
		Very limited		Very limited		Very limited	
		Restricted permeability	1.00	Restricted permeability	1.00	Restricted permeability	1.00
		Slope	1.00	Slope	1.00	Too steep for surface application	1.00
		Droughty	0.96	Droughty	0.96	Too steep for sprinkler application	1.00
		Depth to bedrock	0.46	Depth to bedrock	0.46	Droughty	0.96
		Too acid	0.02	Too acid	0.07	Depth to bedrock	0.46
313F2: Gosport-----	95	Very limited		Very limited		Very limited	
		Slope	1.00	Restricted permeability	1.00	Restricted permeability	1.00
		Restricted permeability	1.00	Slope	1.00	Too steep for surface application	1.00
		Droughty	1.00	Droughty	1.00	Too steep for sprinkler application	1.00
		Depth to bedrock	0.46	Depth to bedrock	0.46	Droughty	1.00
		Too acid	0.02	Too acid	0.07	Depth to bedrock	0.46

FIELD OFFICE TECHNICAL GUIDE Sec. II
WASTE DISPOSAL INTERPRETATIONS

Agricultural Waste Management

Van Buren County, Iowa

Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Application of sewage sludge		Disposal of wastewater by irrigation	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
313G: Gosport-----	95	Very limited Slope	1.00	Very limited Restricted permeability	1.00	Very limited Restricted permeability	1.00
		Restricted permeability	1.00	Slope	1.00	Too steep for surface application	1.00
		Droughty	0.97	Droughty	0.97	Too steep for sprinkler application	1.00
		Depth to saturated zone	0.95	Depth to saturated zone	0.95	Droughty	0.97
		Depth to bedrock	0.46	Depth to bedrock	0.46	Depth to saturated zone	0.95
315: Nodaway-----	40	Somewhat limited Flooding	0.60	Very limited Flooding	1.00	Somewhat limited Flooding	0.60
Klum-----	30	Somewhat limited Flooding	0.60	Very limited Flooding	1.00	Somewhat limited Flooding	0.60
Perks-----	20	Very limited Droughty	1.00	Very limited Flooding	1.00	Very limited Droughty	1.00
		Filtering capacity	1.00	Droughty	1.00	Filtering capacity	1.00
		Flooding	0.60	Filtering capacity	1.00	Flooding	0.60
		Leaching limitation	0.45				
362: Haig-----	100	Very limited Restricted permeability	1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
		Depth to saturated zone	1.00	Restricted permeability	1.00	Restricted permeability	1.00
		Leaching limitation	0.50				
363: Haig-----	100	Very limited Restricted permeability	1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
		Depth to saturated zone	1.00	Restricted permeability	1.00	Restricted permeability	1.00

Agricultural Waste Management

Van Buren County, Iowa

Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Application of sewage sludge		Disposal of wastewater by irrigation	
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364B: Grundy-----	100	Leaching limitation	0.50				
		Very limited		Very limited		Very limited	
		Restricted permeability	1.00	Restricted permeability	1.00	Restricted permeability	1.00
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
364B2: Grundy-----	100					Too steep for surface application	0.08
		Very limited		Very limited		Very limited	
		Restricted permeability	1.00	Restricted permeability	1.00	Restricted permeability	1.00
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
423D2: Bucknell-----	95					Too steep for surface application	0.08
		Very limited		Very limited		Very limited	
		Restricted permeability	1.00	Restricted permeability	1.00	Restricted permeability	1.00
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
424D2: Lindley-----	60	Slope	0.63	Slope	0.63	Too steep for surface application	1.00
		Restricted permeability	0.30	Too acid	0.31	Too steep for sprinkler application	0.77
		Too acid	0.08	Restricted permeability	0.22	Too acid	0.31

FIELD OFFICE TECHNICAL GUIDE Sec. II
WASTE DISPOSAL INTERPRETATIONS

Agricultural Waste Management

Van Buren County, Iowa

Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Application of sewage sludge		Disposal of wastewater by irrigation	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Keswick-----	30					Restricted permeability	0.22
		Very limited Restricted permeability	1.00	Very limited Restricted permeability	1.00	Very limited Too steep for surface application	1.00
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Restricted permeability	1.00
		Slope	0.63	Slope	0.63	Depth to saturated zone	1.00
		Too acid	0.08	Too acid	0.31	Too steep for sprinkler application	0.77
424E2: Lindley-----	65					Too acid	0.31
		Very limited Slope	1.00	Very limited Slope	1.00	Very limited Too steep for surface application	1.00
		Restricted permeability	0.30	Too acid	0.31	Too steep for sprinkler application	1.00
		Too acid	0.08	Restricted permeability	0.22	Too acid	0.31
						Restricted permeability	0.22
Keswick-----	35	Very limited Restricted permeability	1.00	Very limited Restricted permeability	1.00	Very limited Too steep for surface application	1.00
		Slope	1.00	Slope	1.00	Too steep for sprinkler application	1.00
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Restricted permeability	1.00
		Too acid	0.08	Too acid	0.31	Depth to saturated zone	1.00
						Too acid	0.31
425D: Keswick-----	90	Very limited Restricted permeability	1.00	Very limited Restricted permeability	1.00	Very limited Too steep for surface application	1.00

FIELD OFFICE TECHNICAL GUIDE Sec. II
WASTE DISPOSAL INTERPRETATIONS

Agricultural Waste Management

Van Buren County, Iowa

Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Application of sewage sludge		Disposal of wastewater by irrigation	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
425D2: Keswick-----	90	Depth to saturated zone	1.00	Depth to saturated zone	1.00	Restricted permeability	1.00
		Slope	0.63	Slope	0.63	Depth to saturated zone	1.00
		Too acid	0.08	Too acid	0.31	Too steep for sprinkler application	0.77
						Too acid	0.31
		Very limited		Very limited		Very limited	
		Restricted permeability	1.00	Restricted permeability	1.00	Too steep for surface application	1.00
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Restricted permeability	1.00
		Slope	0.63	Slope	0.63	Depth to saturated zone	1.00
		Too acid	0.08	Too acid	0.31	Too steep for sprinkler application	0.77
						Too acid	0.31
432C2: Gorin-----	95	Very limited		Very limited		Very limited	
		Restricted permeability	1.00	Restricted permeability	1.00	Restricted permeability	1.00
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Too acid	0.08	Too acid	0.31	Too steep for surface application	0.66
						Too acid	0.31
						Too steep for sprinkler application	0.01
432D: Gorin-----	95	Very limited		Very limited		Very limited	
		Restricted permeability	1.00	Restricted permeability	1.00	Restricted permeability	1.00
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Too steep for surface application	1.00
		Slope	0.63	Slope	0.63	Depth to saturated zone	1.00

Agricultural Waste Management

Van Buren County, Iowa

Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Application of sewage sludge		Disposal of wastewater by irrigation	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
432D2: Gorin-----	95	Too acid	0.08	Too acid	0.31	Too steep for sprinkler application	0.77
						Too acid	0.31
		Very limited		Very limited		Very limited	
		Restricted	1.00	Restricted	1.00	Restricted	1.00
		permeability		permeability		permeability	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Too steep for surface application	1.00
453: Tuskeego-----	100	Slope	0.63	Slope	0.63	Depth to saturated zone	1.00
		Too acid	0.08	Too acid	0.31	Too steep for sprinkler application	0.77
						Too acid	0.31
		Very limited		Very limited		Very limited	
		Restricted	1.00	Restricted	1.00	Restricted	1.00
		permeability		permeability		permeability	
460: Mtsterling-----	100	Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Leaching limitation	0.50	Too acid	0.07	Too acid	0.07
		Too acid	0.02				
		Very limited		Very limited		Very limited	
		Restricted	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		permeability		Flooding	1.00	Restricted	1.00
520: Coppock-----	100	Depth to saturated zone	1.00	Restricted permeability	1.00	permeability	
		Flooding	0.60			Flooding	0.60
		Very limited		Very limited		Very limited	
		Depth to saturated zone	1.00	Flooding	1.00	Depth to saturated zone	1.00
		Flooding	0.60	Depth to saturated zone	1.00	Flooding	0.60
520B: Coppock-----	100	Very limited		Very limited		Very limited	

FIELD OFFICE TECHNICAL GUIDE Sec. II
WASTE DISPOSAL INTERPRETATIONS

Agricultural Waste Management

Van Buren County, Iowa

Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Application of sewage sludge		Disposal of wastewater by irrigation	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
531B: Kniffin-----	100	Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
						Too steep for surface application	0.08
		Very limited		Very limited		Very limited	
		Restricted permeability	1.00	Restricted permeability	1.00	Restricted permeability	1.00
		Depth to saturated zone	0.43	Depth to saturated zone	0.43	Depth to saturated zone	0.43
531B2: Kniffin-----	100	Too acid	0.08	Too acid	0.31	Too acid	0.31
						Too steep for surface application	0.08
		Very limited		Very limited		Very limited	
		Restricted permeability	1.00	Restricted permeability	1.00	Restricted permeability	1.00
		Depth to saturated zone	0.43	Depth to saturated zone	0.43	Depth to saturated zone	0.43
531C2: Kniffin-----	90	Too acid	0.08	Too acid	0.31	Too acid	0.31
						Too steep for surface application	0.08
		Very limited		Very limited		Very limited	
		Restricted permeability	1.00	Restricted permeability	1.00	Restricted permeability	1.00
		Depth to saturated zone	0.43	Depth to saturated zone	0.43	Too steep for surface application	0.91
532B: Rathbun-----	95	Too acid	0.08	Too acid	0.31	Depth to saturated zone	0.43
						Too acid	0.31
						Too steep for sprinkler application	0.02
		Very limited		Very limited		Very limited	
		Restricted permeability	1.00	Restricted permeability	1.00	Restricted permeability	1.00
		Depth to saturated zone	0.43	Depth to saturated zone	0.43	Depth to saturated zone	0.43

FIELD OFFICE TECHNICAL GUIDE Sec. II
WASTE DISPOSAL INTERPRETATIONS

Agricultural Waste Management

Van Buren County, Iowa

Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Application of sewage sludge		Disposal of wastewater by irrigation	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
532C: Rathbun-----	90	Too acid	0.08	Too acid	0.31	Too acid	0.31
						Too steep for surface application	0.08
		Very limited		Very limited		Very limited	
		Restricted permeability	1.00	Restricted permeability	1.00	Restricted permeability	1.00
		Depth to saturated zone	0.43	Depth to saturated zone	0.43	Too steep for surface application	0.91
532C2: Rathbun-----	90	Too acid	0.08	Too acid	0.31	Depth to saturated zone	0.43
						Too acid	0.31
						Too steep for sprinkler application	0.02
		Very limited		Very limited		Very limited	
		Restricted permeability	1.00	Restricted permeability	1.00	Restricted permeability	1.00
534: Carlow-----	100	Depth to saturated zone	0.43	Depth to saturated zone	0.43	Too steep for surface application	0.91
		Too acid	0.08	Too acid	0.31	Depth to saturated zone	0.43
						Too acid	0.31
						Too steep for sprinkler application	0.02
		Very limited		Very limited		Very limited	
592D2: Mystic-----	100	Restricted permeability	1.00	Restricted permeability	1.00	Restricted permeability	1.00
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Flooding	0.60	Flooding	1.00	Flooding	0.60
		Runoff limitation	0.40	Too acid	0.07	Too acid	0.07
		Too acid	0.02				
534: Carlow-----	100	Very limited		Very limited		Very limited	
		Restricted permeability	1.00	Restricted permeability	1.00	Too steep for surface application	1.00

FIELD OFFICE TECHNICAL GUIDE Sec. II
WASTE DISPOSAL INTERPRETATIONS

Agricultural Waste Management

Van Buren County, Iowa

Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Application of sewage sludge		Disposal of wastewater by irrigation	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
594D2: Galland-----	100	Depth to saturated zone	1.00	Depth to saturated zone	1.00	Restricted permeability	1.00
		Slope	0.63	Slope	0.63	Depth to saturated zone	1.00
		Too acid	0.08	Too acid	0.31	Too steep for sprinkler application	0.77
						Too acid	0.31
		Very limited		Very limited		Very limited	
		Restricted permeability	1.00	Restricted permeability	1.00	Too steep for surface application	1.00
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Restricted permeability	1.00
		Slope	0.63	Slope	0.63	Depth to saturated zone	1.00
		Runoff limitation	0.40			Too steep for sprinkler application	0.77
598G: Bucklick-----	90	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Too steep for surface application	1.00
		Too acid	0.08	Too acid	0.31	Too steep for sprinkler application	1.00
						Too acid	0.31
599G: Nordness-----	50	Very limited Slope	1.00	Very limited Droughty	1.00	Very limited Droughty	1.00
		Depth to bedrock	1.00	Depth to bedrock	1.00	Depth to bedrock	1.00
		Droughty	1.00	Slope	1.00	Too steep for surface application	1.00
						Too steep for sprinkler application	1.00
Gosport-----	45	Very limited Slope	1.00	Very limited Restricted permeability	1.00	Very limited Restricted permeability	1.00

Agricultural Waste Management

Van Buren County, Iowa

Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Application of sewage sludge		Disposal of wastewater by irrigation	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
632B: Adco-----	100	Restricted permeability	1.00	Slope	1.00	Too steep for surface application	1.00
		Droughty	0.97	Droughty	0.97	Too steep for sprinkler application	1.00
		Depth to saturated zone	0.95	Depth to saturated zone	0.95	Droughty	0.97
		Depth to bedrock	0.46	Depth to bedrock	0.46	Depth to saturated zone	0.95
		Very limited		Very limited		Very limited	
		Restricted permeability	1.00	Restricted permeability	1.00	Restricted permeability	1.00
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Runoff limitation	0.40	Too acid	0.31	Too acid	0.31
		Too acid	0.08			Too steep for surface application	0.08
699G: Nordness-----	70	Very limited		Very limited		Very limited	
		Slope	1.00	Droughty	1.00	Droughty	1.00
		Depth to bedrock	1.00	Depth to bedrock	1.00	Depth to bedrock	1.00
		Droughty	1.00	Slope	1.00	Too steep for surface application	1.00
						Too steep for sprinkler application	1.00
Bentonsport-----	25	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Too steep for surface application	1.00
		Cobble content	1.00	Cobble content	1.00	Too steep for sprinkler application	1.00
						Cobble content	1.00
719B: Creal-----	100	Somewhat limited		Somewhat limited		Somewhat limited	
		Depth to saturated zone	0.95	Depth to saturated zone	0.95	Depth to saturated zone	0.95
		Restricted permeability	0.30	Restricted permeability	0.22	Restricted permeability	0.22

Agricultural Waste Management

Van Buren County, Iowa

Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Application of sewage sludge		Disposal of wastewater by irrigation	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
						Too steep for surface application	0.08
720: Raccoon-----	100	Very limited Restricted permeability Depth to saturated zone Flooding Leaching limitation Too acid	1.00 1.00 0.60 0.50 0.08	Very limited Depth to saturated zone Flooding Restricted permeability Too acid	1.00 1.00 1.00 0.31	Very limited Depth to saturated zone Restricted permeability Flooding Too acid	1.00 1.00 0.60 0.31
729: Nodaway-----	65	Somewhat limited Flooding	0.60	Very limited Flooding	1.00	Somewhat limited Flooding	0.60
Coppock-----	35	Very limited Depth to saturated zone Flooding	1.00 0.60	Very limited Flooding Depth to saturated zone	1.00 1.00	Very limited Depth to saturated zone Flooding	1.00 0.60
730B: Nodaway-----	40	Somewhat limited Flooding	0.60	Very limited Flooding	1.00	Somewhat limited Flooding Too steep for surface application	0.60 0.08
Coppock-----	35	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone Too steep for surface application	1.00 0.08
Cantril-----	25	Somewhat limited Depth to saturated zone Too acid	0.43 0.02	Somewhat limited Depth to saturated zone Too acid	0.43 0.07	Somewhat limited Depth to saturated zone Too steep for surface application Too acid	0.43 0.08 0.07

FIELD OFFICE TECHNICAL GUIDE Sec. II
WASTE DISPOSAL INTERPRETATIONS

Agricultural Waste Management

Van Buren County, Iowa

Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Application of sewage sludge		Disposal of wastewater by irrigation	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
792D2: Armstrong-----	95	Very limited Restricted permeability	1.00	Very limited Restricted permeability	1.00	Very limited Too steep for surface application	1.00
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Restricted permeability	1.00
		Slope	0.63	Slope	0.63	Depth to saturated zone	1.00
						Too steep for sprinkler application	0.77
795C2: Ashgrove-----	90	Very limited Restricted permeability	1.00	Very limited Restricted permeability	1.00	Very limited Restricted permeability	1.00
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Runoff limitation	0.40	Too acid	0.31	Too steep for surface application	0.91
		Too acid	0.08			Too acid	0.31
						Too steep for sprinkler application	0.02
795D: Ashgrove-----	90	Very limited Restricted permeability	1.00	Very limited Restricted permeability	1.00	Very limited Restricted permeability	1.00
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Too steep for surface application	1.00
		Slope	0.63	Slope	0.63	Depth to saturated zone	1.00
		Runoff limitation	0.40	Too acid	0.31	Too steep for sprinkler application	0.77
		Too acid	0.08			Too acid	0.31
795D2: Ashgrove-----	90	Very limited Restricted permeability	1.00	Very limited Restricted permeability	1.00	Very limited Restricted permeability	1.00
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Too steep for surface application	1.00

Agricultural Waste Management

Van Buren County, Iowa

Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Application of sewage sludge		Disposal of wastewater by irrigation	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
831B: Pershing-----	100	Slope	0.63	Slope	0.63	Depth to saturated zone	1.00
		Runoff limitation	0.40	Too acid	0.31	Too steep for sprinkler application	0.77
		Too acid	0.08			Too acid	0.31
		Very limited		Very limited		Very limited	
		Restricted permeability	1.00	Restricted permeability	1.00	Restricted permeability	1.00
		Depth to saturated zone	0.43	Depth to saturated zone	0.43	Depth to saturated zone	0.43
		Too acid	0.08	Too acid	0.31	Too acid	0.31
						Too steep for surface application	0.08
831C2: Pershing-----	100	Very limited		Very limited		Very limited	
		Restricted permeability	1.00	Restricted permeability	1.00	Restricted permeability	1.00
		Depth to saturated zone	0.43	Depth to saturated zone	0.43	Too steep for surface application	0.91
		Too acid	0.08	Too acid	0.31	Depth to saturated zone	0.43
						Too acid	0.31
						Too steep for sprinkler application	0.02
832B: Weller-----	100	Very limited		Very limited		Very limited	
		Restricted permeability	1.00	Restricted permeability	1.00	Restricted permeability	1.00
		Depth to saturated zone	0.43	Depth to saturated zone	0.43	Depth to saturated zone	0.43
		Too acid	0.08	Too acid	0.31	Too acid	0.31
						Too steep for surface application	0.08
832C: Weller-----	90	Very limited		Very limited		Very limited	
		Restricted permeability	1.00	Restricted permeability	1.00	Restricted permeability	1.00

FIELD OFFICE TECHNICAL GUIDE Sec. II
WASTE DISPOSAL INTERPRETATIONS

Agricultural Waste Management

Van Buren County, Iowa

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
832C2: Weller-----	90	Depth to saturated zone	0.43	Depth to saturated zone	0.43	Too steep for surface application	0.91
		Too acid	0.08	Too acid	0.31	Depth to saturated zone	0.43
						Too acid	0.31
						Too steep for sprinkler application	0.02
		Very limited		Very limited		Very limited	
		Restricted	1.00	Restricted	1.00	Restricted	1.00
		permeability		permeability		permeability	
		Depth to saturated zone	0.43	Depth to saturated zone	0.43	Too steep for surface application	0.91
		Too acid	0.08	Too acid	0.31	Depth to saturated zone	0.43
						Too acid	0.31
832D2: Weller-----	90	Very limited		Very limited		Very limited	
		Restricted	1.00	Restricted	1.00	Too steep for surface application	1.00
		permeability		permeability		Restricted	1.00
		Slope	0.63	Slope	0.63	permeability	
		Depth to saturated zone	0.43	Depth to saturated zone	0.43	Too steep for sprinkler application	0.77
		Too acid	0.08	Too acid	0.31	Depth to saturated zone	0.43
880B: Clinton-----	95	Somewhat limited		Somewhat limited		Somewhat limited	
		Restricted	0.30	Restricted	0.22	Restricted	0.22
		permeability		permeability		permeability	
		Too acid	0.02	Too acid	0.07	Too steep for surface application	0.08
						Too acid	0.07

Agricultural Waste Management

Van Buren County, Iowa

Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Application of sewage sludge		Disposal of wastewater by irrigation	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
880C: Clinton-----	90	Somewhat limited Restricted permeability	0.30	Somewhat limited Restricted permeability	0.22	Somewhat limited Too steep for surface application	0.91
		Too acid	0.02	Too acid	0.07	Restricted permeability	0.22
						Too acid	0.07
						Too steep for sprinkler application	0.02
880C2: Clinton-----	90	Somewhat limited Restricted permeability	0.30	Somewhat limited Restricted permeability	0.22	Somewhat limited Too steep for surface application	0.91
		Too acid	0.02	Too acid	0.07	Restricted permeability	0.22
						Too acid	0.07
						Too steep for sprinkler application	0.02
880D: Clinton-----	90	Somewhat limited Slope	0.63	Somewhat limited Slope	0.63	Very limited Too steep for surface application	1.00
		Restricted permeability	0.30	Restricted permeability	0.22	Too steep for sprinkler application	0.77
		Too acid	0.02	Too acid	0.07	Restricted permeability	0.22
						Too acid	0.07
880D2: Clinton-----	90	Somewhat limited Slope	0.63	Somewhat limited Slope	0.63	Very limited Too steep for surface application	1.00
		Restricted permeability	0.30	Restricted permeability	0.22	Too steep for sprinkler application	0.77
		Too acid	0.02	Too acid	0.07	Restricted permeability	0.22
						Too acid	0.07

FIELD OFFICE TECHNICAL GUIDE Sec. II
WASTE DISPOSAL INTERPRETATIONS

Agricultural Waste Management

Van Buren County, Iowa

Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Application of sewage sludge		Disposal of wastewater by irrigation	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
977: Richwood-----	100	Not limited		Not limited		Not limited	
993D2: Gara-----	60	Somewhat limited Slope	0.63	Somewhat limited Slope	0.63	Very limited Too steep for surface application	1.00
		Restricted permeability	0.30	Restricted permeability	0.22	Too steep for sprinkler application	0.77
						Restricted permeability	0.22
Armstrong-----	30	Very limited Restricted permeability	1.00	Very limited Restricted permeability	1.00	Very limited Too steep for surface application	1.00
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Restricted permeability	1.00
		Slope	0.63	Slope	0.63	Depth to saturated zone	1.00
						Too steep for sprinkler application	0.77
994D2: Galland-----	65	Very limited Restricted permeability	1.00	Very limited Restricted permeability	1.00	Very limited Too steep for surface application	1.00
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Restricted permeability	1.00
		Slope	0.63	Slope	0.63	Depth to saturated zone	1.00
		Runoff limitation	0.40			Too steep for sprinkler application	0.77
Douds-----	35	Somewhat limited Slope	0.63	Somewhat limited Slope	0.63	Very limited Too steep for surface application	1.00
		Too acid	0.02	Too acid	0.07	Too steep for sprinkler application	0.77
						Too acid	0.07

FIELD OFFICE TECHNICAL GUIDE Sec. II
WASTE DISPOSAL INTERPRETATIONS

Agricultural Waste Management

Van Buren County, Iowa

Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Application of sewage sludge		Disposal of wastewater by irrigation	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
994E2: Galland-----	65	Very limited Restricted permeability	1.00	Very limited Restricted permeability	1.00	Very limited Too steep for surface application	1.00
		Slope	1.00	Slope	1.00	Too steep for sprinkler application	1.00
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Restricted permeability	1.00
		Runoff limitation	0.40			Depth to saturated zone	1.00
Douds-----	35	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Too steep for surface application	1.00
		Too acid	0.02	Too acid	0.07	Too steep for sprinkler application	1.00
				Low adsorption	0.01	Too acid	0.07
1130: Belinda-----	100	Very limited Restricted permeability	1.00	Very limited Restricted permeability	1.00	Very limited Restricted permeability	1.00
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Runoff limitation	0.40				
1260: Beckwith-----	100	Very limited Restricted permeability	1.00	Very limited Restricted permeability	1.00	Very limited Restricted permeability	1.00
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Runoff limitation	0.40	Too acid	0.31	Too acid	0.31
		Too acid	0.08				
1715: Nodaway-----	40	Somewhat limited Flooding	0.60	Very limited Flooding	1.00	Somewhat limited Flooding	0.60
Vesser-----	35	Very limited Depth to saturated zone	1.00	Very limited Flooding	1.00	Very limited Depth to saturated zone	1.00

FIELD OFFICE TECHNICAL GUIDE Sec. II
WASTE DISPOSAL INTERPRETATIONS

Agricultural Waste Management

Van Buren County, Iowa

Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Application of sewage sludge		Disposal of wastewater by irrigation	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Mtsterling-----	25	Flooding	0.60	Depth to saturated zone	1.00	Flooding	0.60
		Very limited		Very limited		Very limited	
		Restricted permeability	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Depth to saturated zone	1.00	Flooding	1.00	Restricted permeability	1.00
1977: Keosauqua-----	100	Flooding	0.60	Restricted permeability	1.00	Flooding	0.60
		Not limited		Not limited		Not limited	
		Not limited		Not limited		Not limited	
		Not limited		Not limited		Not limited	
3051: Vesser-----	100	Very limited		Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Very limited		Very limited		Very limited	
		Restricted permeability	1.00	Restricted permeability	1.00	Restricted permeability	1.00
3054: Zook-----	100	Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Leaching limitation	0.50				
		Very limited		Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
3133: Colo-----	100	Leaching limitation	0.70				
		Very limited		Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Very limited		Very limited		Very limited	
3139: Perks-----	95	Very limited		Very limited		Very limited	
		Droughty	1.00	Droughty	1.00	Droughty	1.00
		Filtering capacity	1.00	Filtering capacity	1.00	Filtering capacity	1.00
		Leaching limitation	0.45				
3208: Klum-----	95	Not limited		Not limited		Not limited	
		Not limited		Not limited		Not limited	
		Not limited		Not limited		Not limited	
		Not limited		Not limited		Not limited	

Agricultural Waste Management

Van Buren County, Iowa

Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Application of sewage sludge		Disposal of wastewater by irrigation	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
3220: Nodaway-----	95	Not limited		Not limited		Not limited	
3315: Nodaway-----	45	Not limited		Not limited		Not limited	
Klum-----	30	Not limited		Not limited		Not limited	
Perks-----	20	Very limited		Very limited		Very limited	
		Droughty	1.00	Droughty	1.00	Droughty	1.00
		Filtering	1.00	Filtering	1.00	Filtering	1.00
		capacity		capacity		capacity	
		Leaching	0.45				
		limitation					
3484: Lawson-----	95	Very limited		Very limited		Very limited	
		Depth to	1.00	Depth to	1.00	Depth to	1.00
		saturated zone		saturated zone		saturated zone	
3520: Coppock-----	100	Very limited		Very limited		Very limited	
		Depth to	1.00	Depth to	1.00	Depth to	1.00
		saturated zone		saturated zone		saturated zone	
3587: Chequest-----	100	Very limited		Very limited		Very limited	
		Depth to	1.00	Depth to	1.00	Depth to	1.00
		saturated zone		saturated zone		saturated zone	
		Restricted	0.30	Restricted	0.22	Restricted	0.22
		permeability		permeability		permeability	
		Too acid	0.02	Too acid	0.07	Too acid	0.07
3720: Raccoon-----	100	Very limited		Very limited		Very limited	
		Restricted	1.00	Depth to	1.00	Depth to	1.00
		permeability		saturated zone		saturated zone	
		Depth to	1.00	Restricted	1.00	Restricted	1.00
		saturated zone		permeability		permeability	
		Leaching	0.50	Too acid	0.31	Too acid	0.31
		limitation					
		Too acid	0.08				
5010: Pits, Sand And Gravel-----	100	Not rated		Not rated		Not rated	

Agricultural Waste Management

Van Buren County, Iowa

Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Application of sewage sludge		Disposal of wastewater by irrigation	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
5020: Pits And Dumps-----	100	Not rated		Not rated		Not rated	
5030: Pits, Limestone Quarries-----	100	Not rated		Not rated		Not rated	
5040: Orthents-----	100	Not rated		Not rated		Not rated	
5047: Aquents-----	100	Not rated		Not rated		Not rated	
AW: Animal Waste-----	100	Not rated		Not rated		Not rated	
SL: Sewage Lagoon-----	100	Not rated		Not rated		Not rated	
W: Water-----	100	Not rated		Not rated		Not rated	